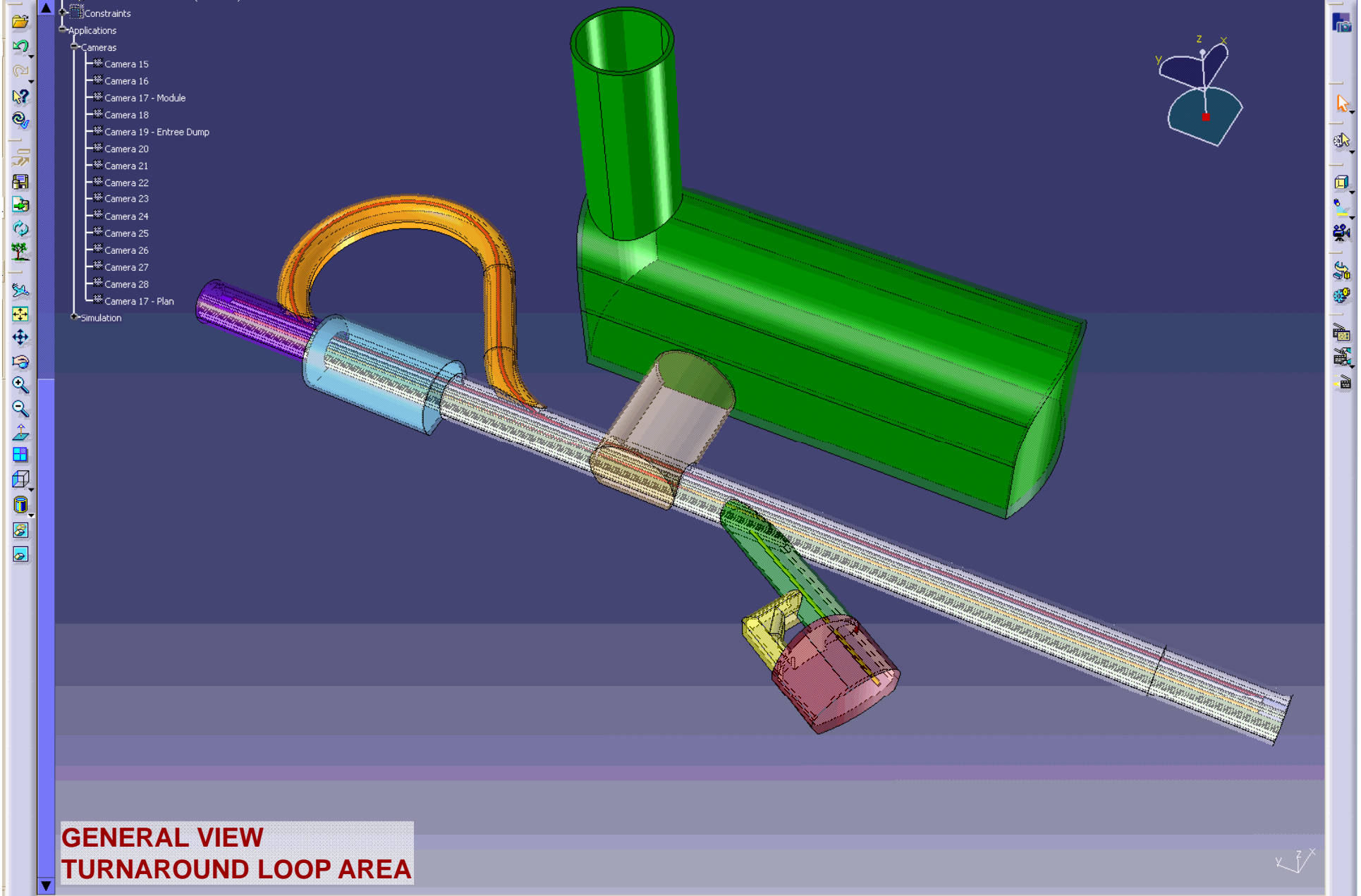


# CLIC

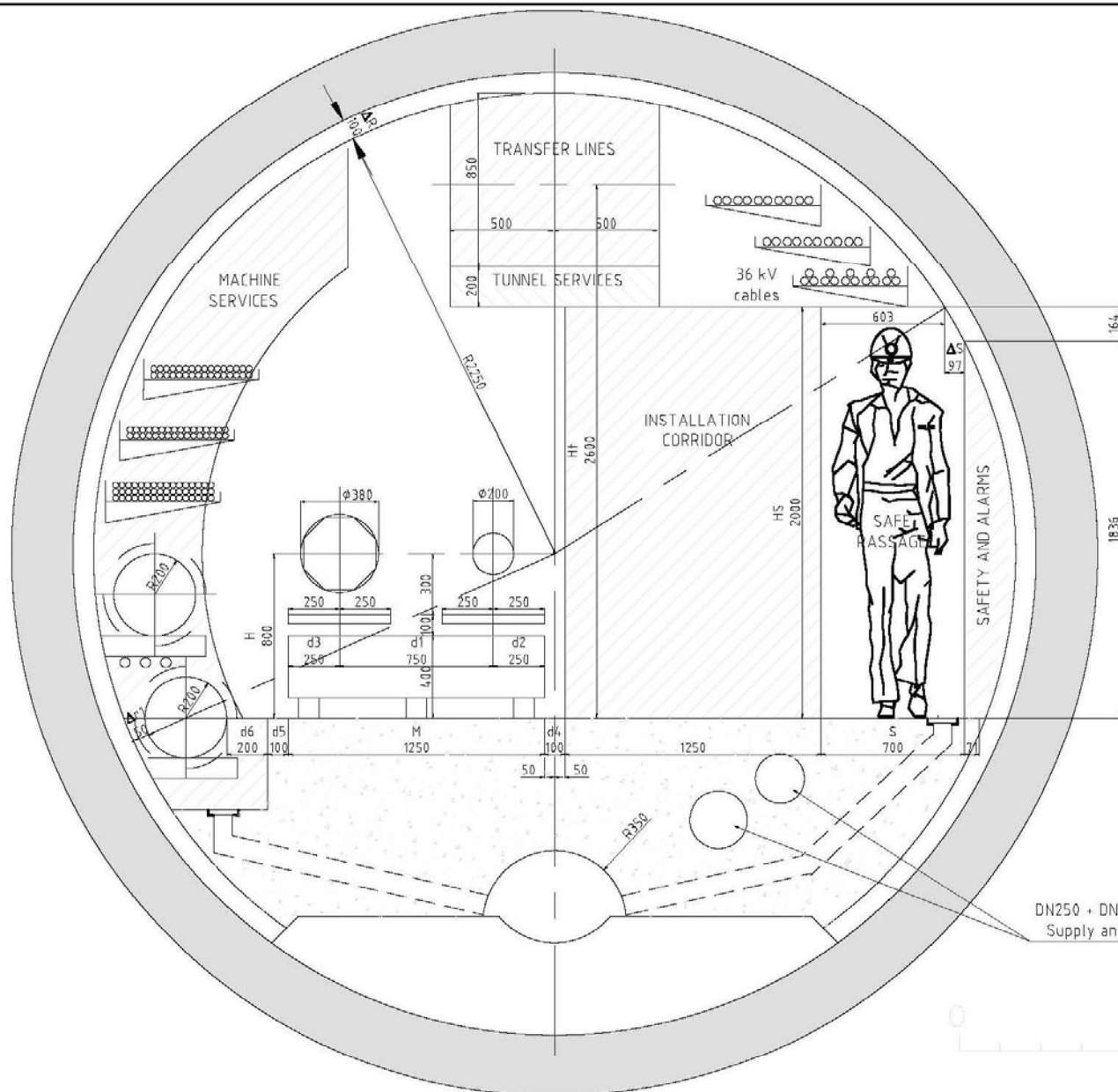
## 3D STUDIES for the Typical Cross Section 3D Study

John Osborne / A.Kosmicki

**2008 Oct. 6th**



**GENERAL VIEW  
TURNAROUND LOOP AREA**

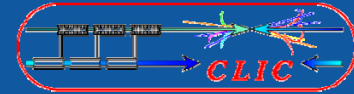


CLIC TUNNEL TYPICAL CROSS SECTION

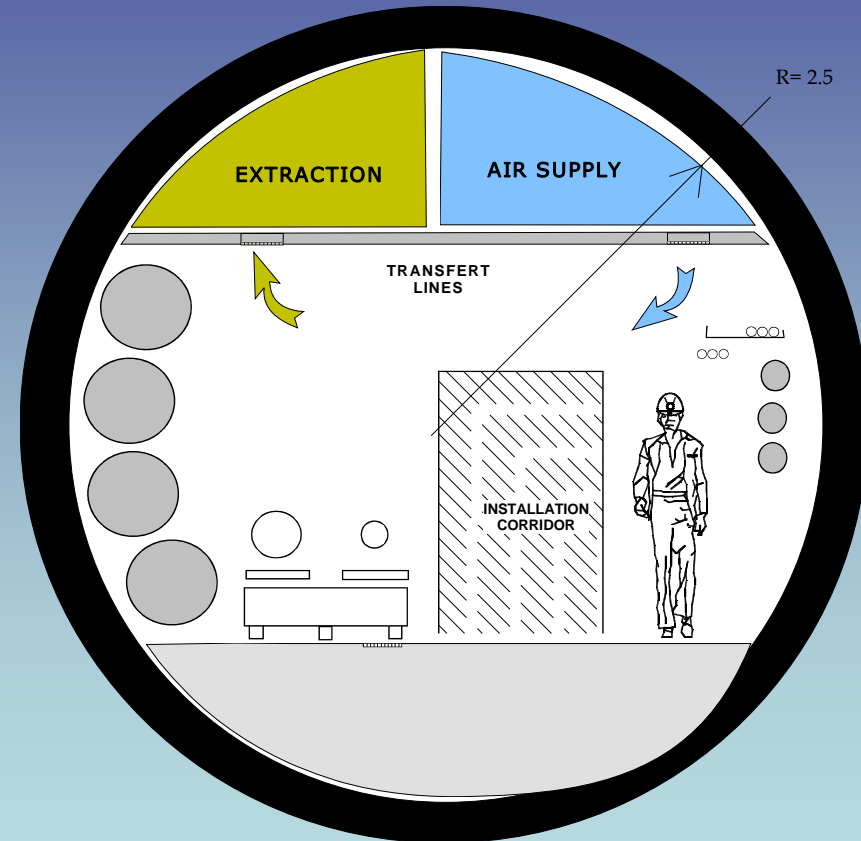
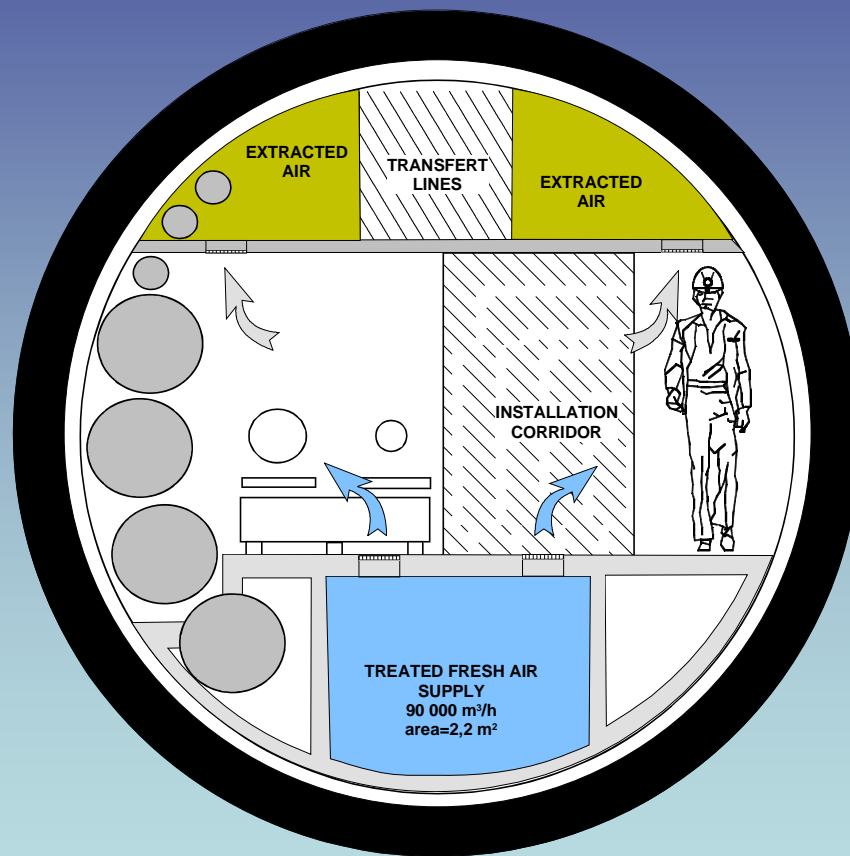


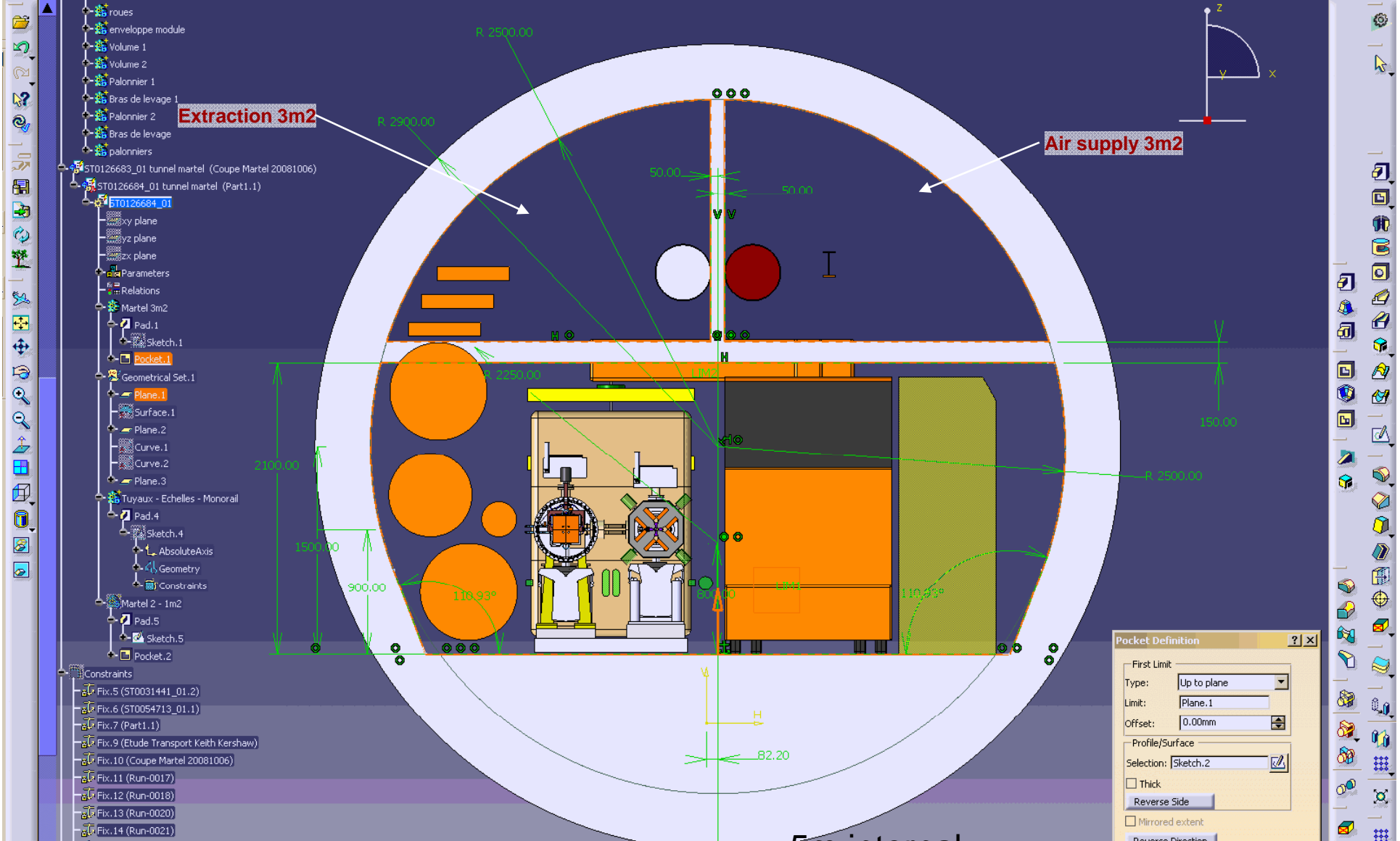
GROUP TS-CE  
**CIVIL ENGINEERING**  
 SUPERVISEUR : C.WYSS  
 DESIGNER : N.BADDAMS

SCALE : 1/20(A3\_FORMAT) DATE : 14\_MAY\_2007  
**CLIC.CE-1.1710.0004** 3 -



## Tunnel section principles





**RIGHT VIEW**  
**TYPICAL CROSS SECTION CLIC TUNNEL – CV 2x3m2**  
 5m internal diameter

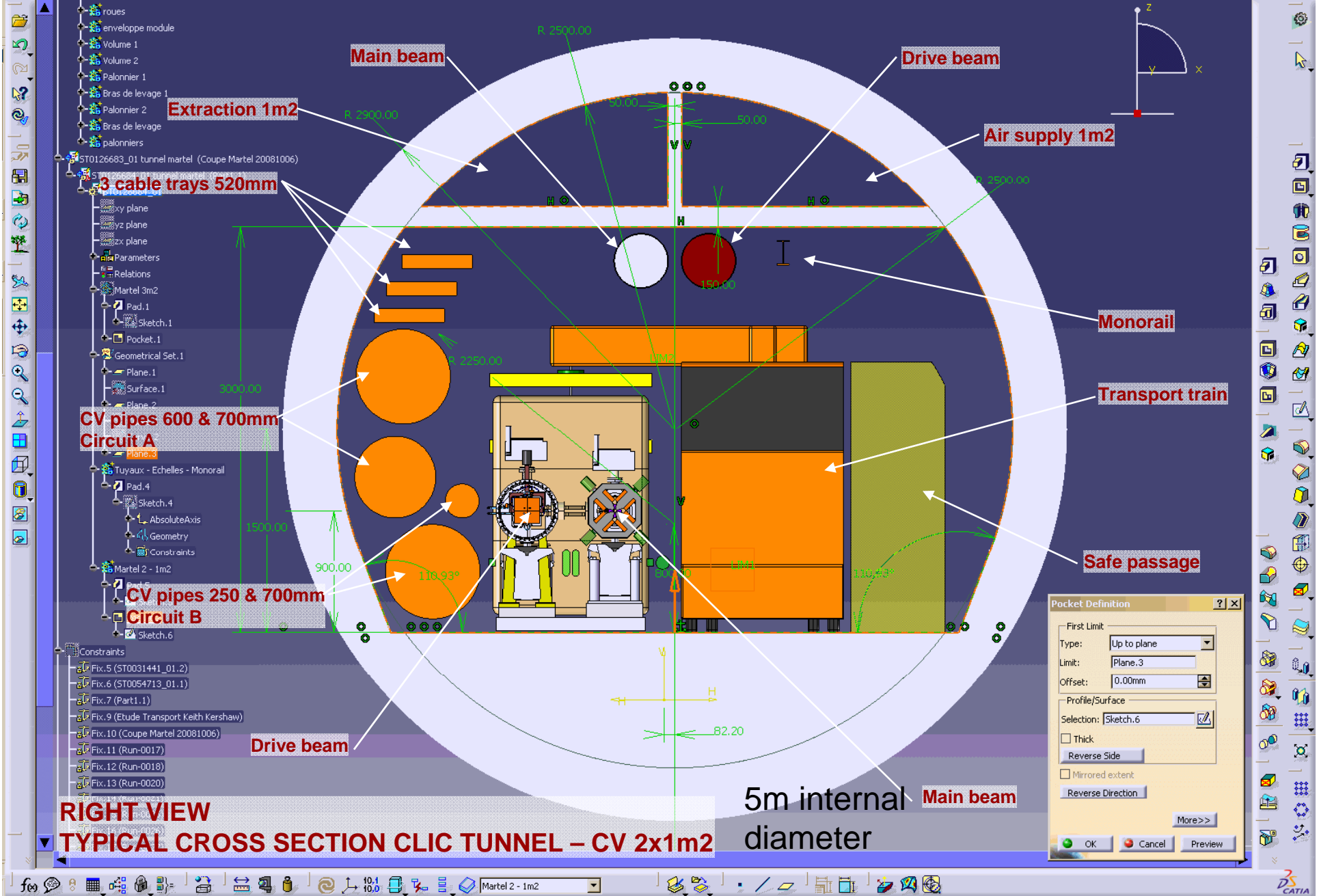
**Pocket Definition**

First Limit  
 Type: Up to plane  
 Limit: Plane.1  
 Offset: 0.00mm

Profile/Surface  
 Selection: Sketch.2  
 Thick  
 Mirrored extent  
 Reverse Side  
 Reverse Direction

More >>  
 OK Cancel Preview





**Extraction 1m2**

**3 cable trays 520mm**

**CV pipes 600 & 700mm  
Circuit A**

**CV pipes 250 & 700mm  
Circuit B**

**RIGHT VIEW**

**TYPICAL CROSS SECTION CLIC TUNNEL – CV 2x1m2**

**5m internal diameter**

**Main beam**

**Pocket Definition**

First Limit: Up to plane

Limit: Plane.3

Offset: 0.00mm

Profile/Surface: Selection: Sketch.6

Thick

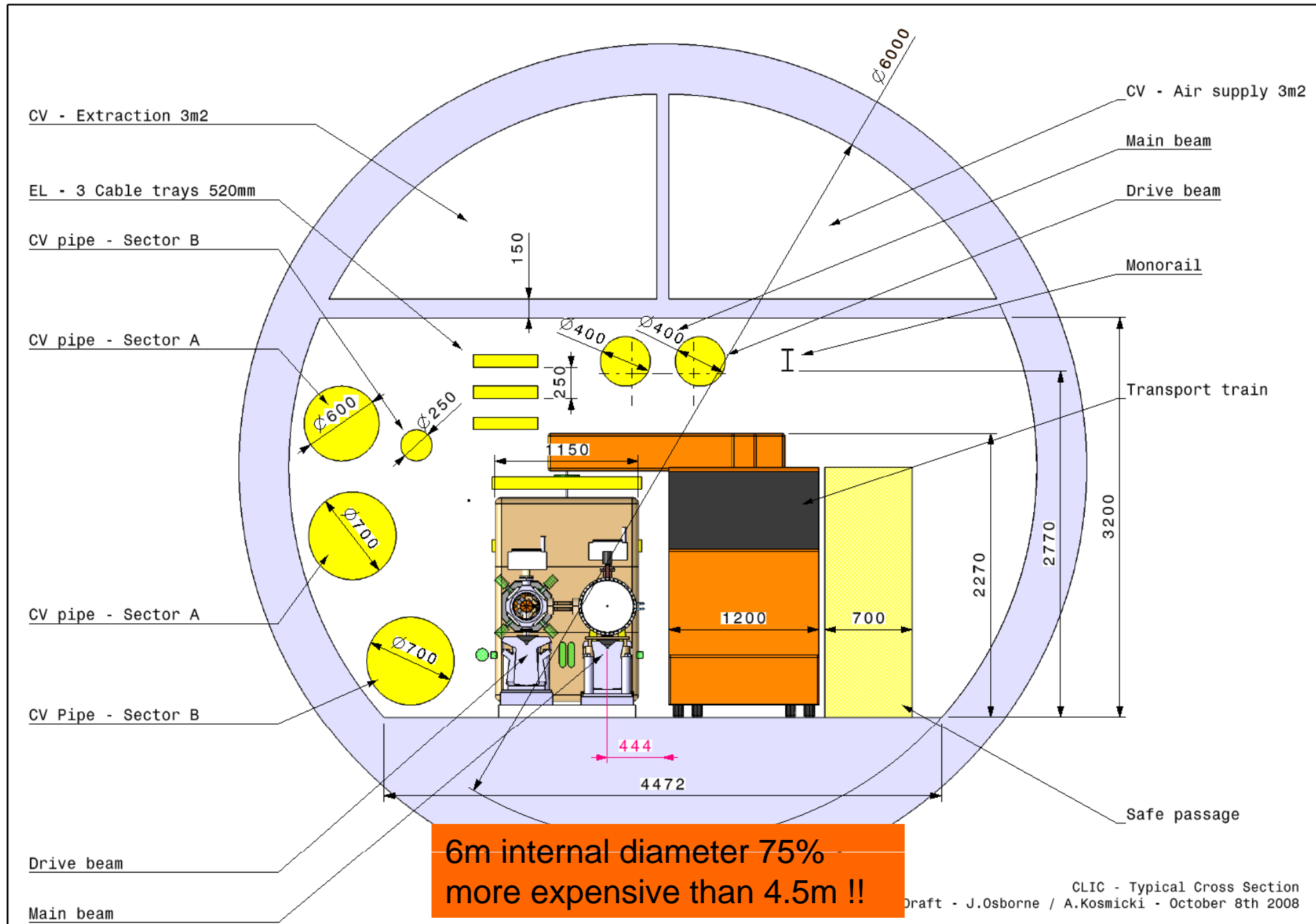
Mirrored extent

Reverse Side

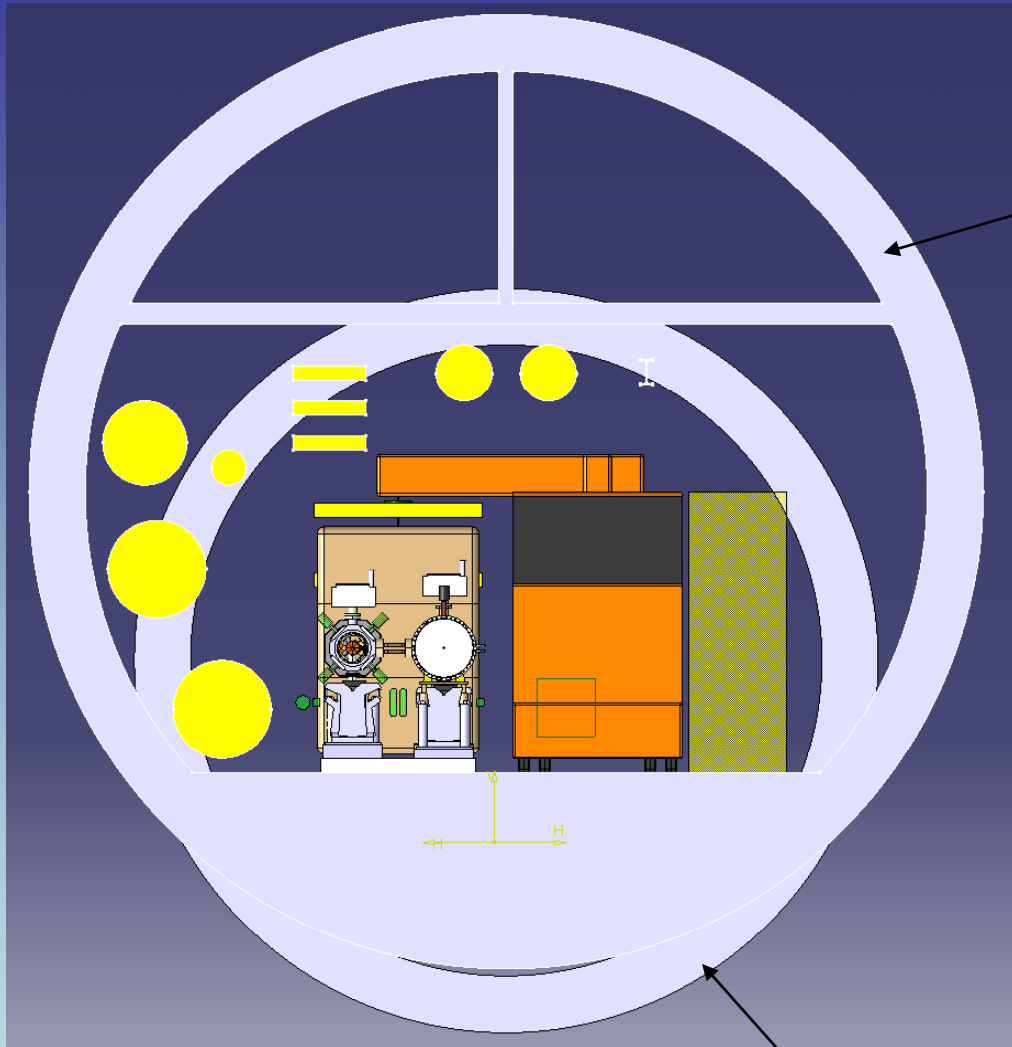
Reverse Direction

More >>

OK Cancel Preview



**6m internal diameter 75% more expensive than 4.5m !!**



6m internal diameter

4.5 internal diameter



## ILC FP7 : Work Package 5 : ILC siting in Europe

### CERN Technical Support (TS) Department Input

		Approx.
General Co-ordination	J.Osborne / C.Hauviller	10%
Civil Engineering	J.Osborne	25%
Civil Engineering Draughtsman	N.Baddams / A.Kosmicki	15%
Cooling & Ventilation	J.Inigo Golfin / C.Martel	20%
Horizontal transport	K.Kershaw	15%
Vertical Handling	I.Ruehl	5%
Safety Advice	F.Corsanego / S.Weisz	10%
		100%

\*No input from Electrical Group available at the moment

# Planning for CLIC08 Workshop :

## Wed 15th Afternoon session

14:00	<p>[45] <b>CLIC Tunnel Layout and Cross-Section</b> by John Andrew OSBORNE (CERN) (Room B: 14:00 - 14:20)</p>
	<p>[153] <b>Discussion</b> (Room B: 14:20 - 14:30)</p>
	<p>[46] <b>Cooling and Ventilation in the Tunnel</b> by Christophe MARTEL (CERN) (Room B: 14:30 - 14:50)</p>
	<p>[154] <b>Discussion</b> (Room B: 14:50 - 15:00)</p>
15:00	<p>[47] <b>Module Integration</b> by Alexandre SAMOSHKIN (Joint Inst. for Nuclear Research (JINR)) (Room B: 15:00 - 15:20)</p>
	<p>[155] <b>Discussion</b> (Room B: 15:20 - 15:30)</p>
	<p>[48] <b>Transport of the CLIC Modules and Elements</b> by Keith KERSHAW (CERN) (Room B: 15:30 - 15:50)</p>
	<p>[156] <b>Discussion</b> (Room B: 15:50 - 16:00)</p>
16:00	<p>Coffee break (16:00 - 16:15)</p>
	<p>[49] <b>ILC Underground Consideration</b> by Victor KUCHLER (Fermilab) (Room B: 16:15 - 16:35)</p>
	<p>[157] <b>Discussion</b> (Room B: 16:35 - 16:45)</p>
	<p>[217] <b>Dubna Siting and ILC Activity at JINR</b> by Grigori SHIRKOV (JINR) (Room B: 16:45 - 17:05)</p>
17:00	<p>[218] <b>Discussion</b> (Room B: 17:05 - 17:15)</p>
	<p>[50] <b>Safety Issue for Underground Structure</b> by Fabio CORSANELO (CERN) (Room B: 17:15 - 17:35)</p>
	<p>[158] <b>Discussion</b> (Room B: 17:35 - 17:45)</p>
	<p>[245] <b>Simulation on radiation levels in the tunnel</b> (Room B: 17:45 - 18:00)</p>
18:00	<p>[159] <b>Discussion</b> (Room B: 18:00 - 18:10)</p>
	<p>[51] <b>Discussion on Common ILC/CLIC Note on Tunnel Safety</b> by Hans BRAUN (CERN)</p>